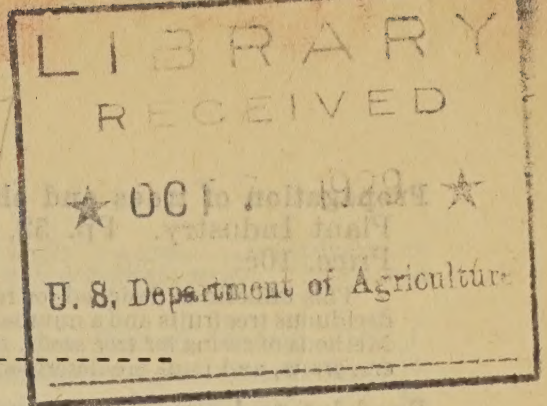


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
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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS


JULY, 1929

READ CAREFULLY BEFORE ORDERING

 Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

 Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and arm home.

Cottontail rabbits in relation to trees and farm crops. By D. E. Lantz, late assistant biologist, Bureau of Biological Survey. Pp. 14, figs. 4. May, 1929. (Farmers' Bulletin 702-F., Revised.) Price, 5¢.

When cottontail rabbits become objectionable because of their injuries to orchards and farm crops, control measures become necessary. This bulletin describes in detail the different methods of control.

Hemorrhagic septicemia "shipping fever" of cattle. By Henry J. Washburn, bacteriologist, Bureau of Animal Industry. Pp. 6. June, 1929. (Farmers' Bulletin 1018-F., Revised.) Price, 5¢.

Hemorrhagic septicemia is an infectious disease, attended with a very high mortality, which attacks various species of animals, especially cattle and sheep. This publication describes symptoms, methods of diagnosis, prevention and treatment of the disease, and gives directions for disinfection of the premises.

Production of late or main-crop potatoes. By William Stuart, senior horticulturist, Bureau of Plant Industry. Pp. 34, figs. 22. March, 1929. (Farmers' Bulletin 1064-F., Revised.) Price, 10¢.

This bulletin describes the essentials for the production of a maximum crop of potatoes, and is primarily intended for the potato growers of the northeastern United States.

Care and management of farm work horses. By J. O. Williams, senior animal husbandman, and Earl B. Krantz, animal husbandman, Bureau of Animal Industry. Pp. 8, figs. 15. April, 1929. (Farmers' Bulletin 1419-F., Revised.) Price, 5¢.

The proper management of farm work horses means that they must be so maintained as to be more serviceable, more profitable, and longer lived than the average horse. This publication discusses the factors involved, such as stabling, wintering, feed, grooming, and the use of proper harness.

Propagation of trees and shrubs. By Guy E. Yerkes, horticulturist, Bureau of Plant Industry. Pp. 52, figs. 39. April, 1929. (Farmers' Bulletin 1567-F.) Price, 10¢.

This bulletin is designed for readers who desire practical details concerning the propagation of the deciduous tree fruits and a number of the trees and shrubs used for the adornment of home surroundings. Methods of caring for tree seeds, the culture of seedlings, the successive steps in handling cuttings, layers, grafts, and buds are described.

Feed-lot and ranch equipment for beef cattle. By W. H. Black, senior animal husbandman, and V. V. Parr, animal husbandman. Pp. 22, figs. 30. April, 1929. (Farmers' Bulletin 1584-F.) Price, 5¢.

Practical equipment which is more or less essential in the successful handling of beef cattle on the range and in the feed lot is discussed in this bulletin and illustrated by drawings and photographs. Details concerning silos, barns, and concrete work which have previously been presented in other publications are not included, but reference is made to the publications containing such details.

The southern pine beetle: A serious enemy of pines in the South. By R. A. St. George, associate entomologist, and J. A. Beal, assistant entomologist, Bureau of Entomology. Pp. 18, figs. 17. May, 1929. (Farmers' Bulletin 1586-F.) Price, 5¢.

The periodic widespread devastations of the southern pine beetle have been responsible for the destruction of more merchantable pine timber in the Southern States than has any other agency. This bulletin describes the insect and its work, its life and habits, and the methods that have been employed to prevent and suppress outbreaks.

Beef production on the farm. By W. H. Black, senior animal husbandman, and E. W. McComas, associate animal husbandman, Bureau of Animal Industry. Pp. 14, figs. 9. May, 1929. (Farmers' Bulletin 1592-F.) Price, 5¢.

This is a practical report covering development of beef cattle in the United States, breeding stock, feeding and management, salt requirements, feeding cattle for market, sanitation, disease prevention, etc.

The bollworm or corn ear worm as a cotton pest. By F. C. Bishopp, principal entomologist, Bureau of Entomology. Pp. 14, figs. 12. June, 1929. (Farmers' Bulletin 1595-F.) Price, 5¢.

A popular account of the bollworm as a pest of cotton and suggestions as to how it may be controlled. The insect is described; its habits are outlined; and control by means of fall plowing and other cultural practices and the use of poisons and trap crops is discussed.

Cattle grubs or heel flies with suggestions for their control. By F. C. Bishopp, principal entomologist, E. W. Laake, associate entomologist, and R. W. Wells, associate entomologist, Bureau of Entomology. Pp. 22, figs. 19. June, 1929. (Farmers' Bulletin 1596-F.) Price, 5¢.

A popular account of an important pest of all classes of cattle in the United States; the biology, seasonal history, and habits of the insects are briefly described, the various types of injury outlined, and methods of control suggested. This bulletin is of interest to cattle owners, butchers, hide dealers, tanners, and leather manufacturers.

Dehorning, castrating, branding, and marking beef cattle. By W. H. Black, senior animal husbandman, and V. V. Parr, animal husbandman, Bureau of Animal Industry. Pp. 12, figs. 11. May, 1929. (Farmers' Bulletin 1600-F.) Price, 5¢.

This bulletin is intended primarily for beef-cattle producers. When properly performed, the operations described cause a considerable increase in the quantity and quality of the beef supply and also improvement in the quality of the leather produced. Practically all the information which the farmer and cattleman need in connection with the four operations is given.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to not more than eight pages.

Planting southern pine. By Philip C. Wakeley, assistant silviculturist, Forest Service. Pp. 8, figs. 4. April, 1929. (Leaflet 32-L.) Price, 5¢.

By planting it to trees, much of the farm land of the South that is unfit for cultivation can be changed from a liability to an asset. All the southern pines grow rapidly, and at an early age yield pulp wood, saw logs, and other valuable products. The methods of planting pine that have proved most successful in the South are described in this leaflet.

Maintaining the health of livestock in transit. By A. W. Miller, Chief, Packers and Stockyards Division, Bureau of Animal Industry. Pp. 8, figs. 8. May, 1929. (Leaflet 38-L.) Price, 5¢.

Although in recent years much improvement has been made in equipment used for shipping livestock and in safe and humane handling of them, great losses occur. This publication gives recommendations for preventing shipping fever and other ailments which occur among livestock in transit. The leaflet is intended principally for livestock shippers, but it contains information of interest also to veterinarians, railway officials, market agencies, and others engaged in handling livestock. Among the recommendations are specific directions for feeding, watering, and caring for livestock before, during, and after shipment.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Distribution of the classes and varieties of wheat in the United States. By J. Allen Clark, senior agronomist, John H. Martin, associate agronomist, Karl S. Quisenberry, associate agronomist, John R. Hooker, scientific aid, C. E. Leighty, principal agronomist, and Chester N. Dubois, formerly junior calculator, Bureau of Plant Industry. Pp. 68, figs. 92. May, 1929. (Department Bulletin 1498-D.) Price, 20¢.

A semitechnical bulletin for agronomists, county agents, millers, and grain dealers, showing the distribution and acreage of the classes and varieties of wheat grown in the United States. The importance of each variety in each State in 1919 and 1924 is shown by tables of total and percentage acreages. The distribution of the more important varieties is indicated by dotted maps. The changes occurring in the popularity of different varieties are shown.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Life history of the codling moth in northern Georgia. By E. R. Van Leeuwen, associate entomologist, Bureau of Entomology. Pp. 95, figs. 21. June, 1929. (Technical Bulletin 90-T.) Price, 20¢.

Presents the results of a 2-year study of the life history and habits of the codling moth in one of the most southerly of the commercial apple regions of the United States. The report is one of a series of similar reports on this insect from various apple districts representing widely different climatic conditions.

Dairy work at the Huntley Field Station, Huntley, Mont., 1918-1927. By T. W. Moseley, associate dairy husbandman, Duncan Stuart, associate dairy husbandman, and R. R. Graves, principal specialist in dairy cattle breeding, Bureau of Dairy Industry. Pp. 48, figs. 14. June, 1929. (Technical Bulletin 116-T.) Price, 15¢.

This gives results of experiments conducted at the Huntley station, which are of special interest to dairy farmers in irrigated regions and also of interest to dairy farmers in all parts of the United States. There are data on pastures, feeding, weight variations, and breeding.

Comparative influence of different storage temperatures on weight losses and vitality of seed potatoes. By William Stuart, senior horticulturist, P. M. Lombard, associate horticulturist, and Walter M. Peacock, associate horticulturist, Bureau of Plant Industry. Pp. 18, figs. 7. May, 1929. (Technical Bulletin 117-T.) Price, 5¢.

This publication is primarily written for those technically interested in the storage of potatoes. A review of the previous investigations is given. The potatoes were stored in the Aroostook farm potato-storage house, Presque Isle, Me., Marble Laboratory, Canton, Pa., and in the cold-storage plant at the Arlington Experiment Farm, Rosslyn, Va. The tests were made at the Virginia Truck Experiment Station, Norfolk, Va., the Arlington Experiment Farm, and the Aroostook farm.

Relation of husk covering to smut of corn ears. By C. H. Kyle, senior agronomist, Bureau of Plant Industry. Pp. 8, pls. 2. May, 1929. (Technical Bulletin 120-T.) Price, 5¢.

A technical presentation of data showing the positive relation between well-developed husk coverings and freedom from smut on ears of corn. The data were obtained in 1926 at the Arlington Experiment Farm, Rosslyn, Va.

Some factors affecting the marketing of wool in Australia, New Zealand, the Union of South Africa, England, and France. By J. F. Walker, consulting specialist, Bureau of Agricultural Economics. Pp. 94, figs. 37. June, 1929. (Technical Bulletin 124-T.) Price, 25¢.

The bulletin discusses production conditions in various countries and the adaptation of the industry to local conditions. Considerable attention is given to efforts in sheep breeding to obtain higher yield and better quality of wool. Cooperative marketing of wool is making progress in all of these countries.

Relative costs of extension methods which influence changes in farm and home practices. By H. J. Baker, Director of Extension, New Jersey, and M. C. Wilson, in charge Extension Studies, Office of Cooperative Extension Work. Pp. 31, figs. 12. June, 1929. (Technical Bulletin 125-T.) Price, 10¢.

This study interprets the results ascribed to various extension methods in terms of their relative costs. Standards are thus set up which may guide extension administrators and supervisors in budgeting funds and planning work, and extension agents and subject-matter specialists in directing and making efficient their own efforts.

Decay of slash of northern white pine in southern New England. By Perley Spaulding, senior pathologist, Bureau of Plant Industry. Pp. 20, figs. 3. July, 1929. (Technical Bulletin 132-T.) Price, 5¢.

This bulletin presents the results of preliminary investigations. The center of operations was the Harvard Forest, Petersham, Mass., because of abundance of material in that vicinity. It is believed that sufficient data have been taken to permit the drawing of tentative conclusions, which may be of value in future cuttings of this species.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Home demonstration work under the Smith-Lever Act, 1914-1924. By Florence E. Ward, principal agriculturist, in charge Eastern States, Office of Cooperative Extension Work. Pp. 36, figs. 14. June, 1929. (Circular 43-C.) Price, 10¢.

This review of the first 10-year period of organized home demonstration work under the Smith-Lever Act shows that the movement has not only been extraordinary in its growth from the standpoint of numbers employed and funds expended, but that it has developed on broad and practical lines affecting all individual and family life and community relationships.

The utilization of browse forage as summer range for cattle in southwestern Utah. By C. L. Forsling, Director, Great Basin Experiment Station, and Earl V. Storm, forest ranger, Forest Service. Pp. 30, figs. 7, pls. 6. May, 1929. (Circular 62-C.) Price, 10¢.

To perpetuate the better browse plants, grazing should be so managed that 10 to 20 per cent of each year's growth will be left at the end of the season. This publication is intended primarily for cattlemen.

Work of the Huntley Field Station, Montana, in 1925 and 1926. By Dan Hansen, associate agronomist and superintendent, A. E. Seamans, associate agronomist, and David A. Savage, formerly junior agronomist, Bureau of Plant Industry. Pp. 36, figs. 5. July, 1929. (Circular 70-C.) Price, 10¢.

This report presents the results of investigational work with field crops and livestock at the Huntley Field Station in 1925 and 1926 and gives a summary of the more important experiments conducted at this station since it was established in 1910. The investigational work includes experiments with both irrigated and dry-land field crops, and feeding, breeding, and management experiments with dairy cattle and hogs.

The cold storage of eggs and poultry. By Thomas W. Heitz, associate marketing specialist, Bureau of Agricultural Economics. Pp. 55, figs. 25. June, 1929. (Circular 73-C.) Price, 15¢.

This circular discusses the subject in such a way that the layman can get general information regarding the construction of warehouses, temperatures and humidities, and the preparation of goods before going into storage and in coming out of storage.

MISCELLANEOUS CIRCULARS

These circulars include those publications of a miscellaneous nature which do not fall within any of the other series issued by the department. The series closes with No. 110 and is replaced by the Miscellaneous Publications series.

Ramie, a fiber-yielding plant. By Lyster H. Dewey, senior botanist, Bureau of Plant Industry. Pp. 12, figs. 4. May, 1929. (Miscellaneous Circular 110-M.) Price, 5¢.

This is a brief popular paper designed to answer questions about the plant and its fiber and the possibility of cultivating ramie in this country. Ramie fiber is now produced commercially only in China and Japan. The fiber is remarkably strong and has other exceptional qualities, but it is not readily spun on machinery designed for other fibers and there is no established market for it in the United States.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Directory of field activities of the Plant Quarantine and Control Administration. Pp. 50, map. April, 1929. (Miscellaneous Publication 47-M.) Price, 10¢.

This directory gives a list of the administrative leaders in Washington and in the field and a brief statement of the work of the administration. The list of field stations is arranged alphabetically by States, and gives for each the location, the name of the man in charge, and a brief statement of the work conducted at the station.

The Food, Drug, and Insecticide Administration of the Department of Agriculture. Pp. 20, figs. 4. June, 1929. (Miscellaneous Publication 48-M.) Price, 10¢.

This publication outlines the organization and work of the Food, Drug, and Insecticide Administration which enforces six laws that are designed primarily to promote purity in and truthful labeling of foods, drugs, insecticides, caustic poisons, and naval stores. It was prepared to answer the many inquiries received as to the procedure under the six acts.

Directory of field activities of the Bureau of Biological Survey. Pp. 38, fig. 1. June, 1929. (Miscellaneous Publication 49-M.) Price, 10¢.

This directory is issued primarily for the use of the various offices of the Bureau of Biological Survey and of department employees and persons having regular official business with the bureau.

How to find economic facts and apply them as a basis for extension programs in home economics, dairying, and forestry. By Florence E. Ward, principal agriculturist in charge, Eastern States, Office of Cooperative Extension Work. Pp. 10. July, 1929. (Miscellaneous Publication 52-M.) Price, 5¢.

This publication is of particular interest to State directors of extension, State leaders of home demonstration work, and the extension specialists in home economics, forestry, and dairying. The procedure described in this publication was suggested at an extension conference last February.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., for May, concerning the work of the Bureau of Animal Industry. Pp. 43-51. June, 1929. (Service and Regulatory Announcement, Bureau of Animal Industry, No. 265.) Price, 5¢.

Notices of Judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration.

N. J., F. D. 15901-15950; pp. 463-492. May, 1929.

N. J., F. D. 15951-16000; pp. 493-520. June, 1929.

N. J., F. D. 16001-16050; pp. 1-21. July, 1929.

N. J., F. D. 16051-16100; pp. 23-45. July, 1929.

N. J., F. D. 16101-16125; pp. 47-60. July, 1929.

N. J., F. D. 16126-16150; pp. 61-74. July, 1929.

Adulteration and misbranding of seed of redtop, 1928. Pp. 2. July, 1929. (Service and Regulatory Announcement, Bureau of Plant Industry, No. 15.)

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists.

Soil survey of Adams County, Nebraska. By F. A. Hayes, of the U. S. Department of Agriculture, and D. F. Hyde, Nebraska Soil Survey. Pp. 1375-1422, fig. 1, map. Series 1923, Number 41. [June] 1929. Price, 15¢.

Soil Survey of Butler County, Nebraska. By A. W. Goke, of the U. S. Department of Agriculture, and G. E. Bates, Nebraska Soil Survey. Pp. 36, fig. 1, map. Series 1924, Number 20. [June] 1929. Price, 20¢.

Soil survey of Garden County, Nebraska. By Louis A. Wolfanger, in charge, and A. W. Goke, U. S. Department of Agriculture, and H. E. Weakley and E. H. Strieter, Nebraska Soil Survey. Pp. 1-55, fig. 1, map. (From F. O. Soils, Number 17, Series 1924.) Price, 30¢.

Soil survey of Lake County, Ohio. By Arthur E. Taylor. Pp. 54, fig. 1, map. Series 1925, Number 3. [April] 1929. Price, 25¢.

Soil survey of Lamar County, Georgia. By S. O. Perkins, F. A. Hayes, A. M. O'Neal, jr., and C. E. Deardorff. Pp. 21, fig. 1, map. Series 1925, Number 1. 1928. Price, 15¢.

Soil survey of Olmsted County, Minnesota. By J. Ambrose Elwell, G. B. Shivery, B. H. Hendrickson, Mark Baldwin, and A. T. Sweet. Pp. 959-1012, fig. 1, map. (From Soils F. O., 1923.) 1928. Price, 25¢.

Soil survey of Platte County, Nebraska. By L. S. Paine (in charge) and F. A. Hayes, United States Department of Agriculture; and G. E. Bates, Nebraska Soil Survey. Pp. 1423-1469, fig. 1, maps. (From F. O. Soils, Number 42. Series 1923.) Price, 35¢.

OTHER PUBLICATIONS

Acquisition of land by purchase, gift, or lease under the migratory-bird conservation act of February 18, 1929. Pp. 6. May, 1929. (Biological Survey Bureau. Form Bi-1018). Price, 5¢.

This pamphlet gives general information regarding the act, lands to be acquired, character of lands desired, reservations, gifts, leases, etc., with full text of the law.

Report of the Hawaii Agricultural Experiment Station, 1928. Pp. 29, figs. 13. June, 1929. Price, 10¢.

An account of the work done at the station during 1928, with reports of the horticultural division, agronomy division, chemistry division, etc.

PERIODICALS

AGRICULTURAL SITUATION

This 24-page publication issued monthly by the Bureau of Agricultural Economics contains a brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. Its general purpose is to furnish extension workers and others with a very concise picture of economic conditions in agriculture from month to month. Free distribution is limited to department employees, State college workers, cooperators, libraries, and the press. The subscription price is 25¢ a year, domestic; 40¢ a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 13, No. 7: Pp. 24. July 1, 1929.

CLIMATOLOGICAL DATA

These 42 sections, issued monthly, contain weather statistics for 42 separate sections, each corresponding, as a rule, to a State. An annual summary is also issued. The subscription price is 50¢ a year for monthly information in regard to 1 section; 35¢ a month for data regarding all 42 sections, or \$4 a year, including the annual summary; 50¢ for the annual summary of the data for the 42 sections. Subscriptions should be made payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 16, No. 4. April.

CLIP SHEET

The Clip Sheet is made up of short interesting stories concerning the department and the application of new ideas and discoveries in the field of agriculture. From 8 to 10 stories, varying from fillers of a few lines to articles of 200 to 300 words are included in each weekly issue. It is distributed free to newspapers and other interested publications and to writers. There is no subscription list.

No. 575. July 7, 1929.

No. 576. July 14, 1929.

No. 577. July 21, 1929.

No. 578. July 28, 1929.

CROPS AND MARKETS

Statistics concerning crops and livestock estimates and market information are contained in this monthly publication. It contains reports on supplies, stocks, commercial movements, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand both foreign and domestic. It is of particular interest to economists, statisticians, and persons whose business is affected by agricultural production and marketing. Free distribution is restricted to those who collaborate with the department. The subscription price is 60¢ a year, domestic; 85¢ a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 6, No. 6. June, 1929.

DAILY WEATHER MAPS

Edition 1.—These maps contain forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Each map is 16.4 by 22.7 inches. These maps are not issued on Sundays or holidays. Editions issued at Washington, D. C., are 25¢ a month, \$2.50 a year. These maps can not be furnished in quantities unless the order is placed with the Superintendent of Documents, Washington, D. C., in advance of issue.

Edition 2.—These maps contain forecasts for the entire United States. Each map is 16.4 by 22.7 inches. The Sunday edition does not contain as much information as the editions for week days. The subscription price is 30¢ a month, \$3 a year. Maps can not be furnished in quantities unless the order is placed with the Superintendent of Documents, Washington, D. C., in advance of issue.

Daily weather maps (Maps DD and E, 11 by 16 inches, and Map CM, 8 by 12 inches), showing the weather conditions and forecasts, issued, except Saturdays and holidays, at numerous stations throughout the United States; 20 cents per month, \$2.00 per year, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

EXPERIMENT STATION RECORD

The Experiment Station Record is a technical review of the world's scientific literature pertaining to agriculture. Each volume contains about 3,500 abstracts of current research in the various fields of agriculture, together with brief notes on the progress of agricultural education and research and monthly editorials dealing with some phase of its advancement. It is particularly designed for the use of research workers, teachers, extension specialists, and others desiring to keep abreast of the new information in the various fields of agriculture and as a work of reference for ascertaining the status of research in these fields. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar institutions, libraries, and exchanges. The subscription price is 75¢ a volume, domestic; \$1.25 a volume, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

- Vol. 59, Index Number. July-December, 1928. Price, 10¢.
 Vol. 60, no. 7. May, 1929. Price, 10¢.
 Vol. 60, no. 8. June, 1929. Price, 10¢.
 Vol. 60, no. 9. June, 1929. Abstract Number. Price, 10¢.

JOURNAL OF AGRICULTURAL RESEARCH

The Journal of Agricultural Research is of primary interest to agricultural scientists and advanced students only. Free distribution is limited to certain libraries and to institutions or departments doing research work. The Superintendent of Documents will receive subscription for this publication; \$4 a year, domestic; \$5.25 a year foreign. Each article in the Journal is reprinted as a "separate." The number of reprints or separates is limited. They are distributed free to those desiring them as long as the supply lasts.

- Vol. 38, No. 11, June 1, 1929, illus. Price, 20¢.

CONTENTS

- Electric stimulation of plant growth.—(G-669). G. N. Collins, L. H. Flint, and J. W. McLane.
 A criterion of the differentiation of varieties or of experimental areas with respect to their capacity to produce seedling stands of cotton.—(G-672). J. Arthur Harris, George J. Harrison, and Edna K. Lockwood.
 Smuts and rusts produced in cereals by hypodermic injection of inoculum.—(G-673). Marion Griffiths Zehner and Harry B. Humphrey.
Aphodius granarius (Coleoptera), an intermediate host for *Hymenolepis carioca* (Cestoda).—(A-129). Myrna F. Jones.
 The effect of the digestive processes of animals on the viability of corn and sorghum smut spores.—(Kans.-56). C. H. Ficke and L. E. Melchers.
 Natural crossing between oat plants of hybrid origin.—(W. Va.-5). R. J. Garber and M. M. Hoover.

- Vol. 38, No. 12, June 15, 1929, illus. Price, 20¢.

CONTENTS

- Pathological symptoms in legumes caused by the potato leaf hopper. (G-671). John Monteith, jr., and E. A. Hollowell.
 Fruit-bud development in the tung-oil tree. (Fla.-3). Charles E. Abbott.
 Effect of lime materials on the outgo of sulphur from Hagerstown silt loam soil. (Va. (Blacksburg)-7). W. B. Ellett and H. H. Hill.

- Vol. 39, No. 1, July 1, 1929, illus. Price, 20¢.

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- Development of flower and seed in some varieties of sugar cane.—(G-648) Ernst Artschwager, E. W. Brandes, and Ruth Colvin Starrett.
 Sulphur-spray residues and the swelling of tin cans packed with peaches.—(G-677). C. W. Culpepper and H. H. Moon.
 Studies on *Sclerotium rofsii*, with special reference to the metabolic interchange between soil inhabitants.—(Ark.-14.) H. R. Rosen and Luther Shaw.
 The rate of spread of potato virus diseases in western Nebraska.—(Nebr.-8). R. W. Goss.
 The respiration factor in the deterioration of fresh vegetables at room temperature.—(Okla.-13). Marjorie P. Benoy.

- Vol. 39, No. 2, July 15, 1929, illus. Price, 20¢.

CONTENTS

- A physiological study of rooting and callusing in apple and willow.—(G-670). Charles F. Swingle
 Occurrence of the zonate-eyespot fungus *Helminthosporium giganteum* on some additional grasses.—(G-684). Charles Dreschsler.
 Modification of western yellow pine root systems by fertilizing the soil at different depths in the nursery.—(F-45). W. G. Wahlenberg.
 The use of dressed-beef appraisals in measuring the market desirability of beef cattle.—(Tex.-7) Jay L. Lush, W. H. Black, and A. T. Semple.

MONTHLY WEATHER REVIEW

This publication contains (1) meteorological contributions and bibliography, (2) an interpretative summary and charts of the weather of the month in the United States, and on adjacent oceans, and (3) climatological tables dealing with the weather of the month. The contributions are principally as follows: (a) Results of observational or research work in meteorology carried on in the United States or other parts of the world; (b) abstracts or reviews of important meteorological papers and books; and (c) notes. The subscription price is \$1.50 a year, domestic; \$2.25 a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

- Vol. 57, No. 3, March, 1929. Pp. 85-126, illus. Price, 15¢.

CONTENTS

The climatic record of Honduras.—Nels A. Bengtson.
 Weather abnormalities in the United States.—A. J. Henry.
 Notes on line squalls.—C. G. Andrus.
 Evaporation from rain gages.—H. G. Carter.
 Coast fogs and radiobeacons.—W. E. Hurd.
 Tornadoes in Kansas.—S. D. Flora.
 Angstrom on recording solar radiation; a study of the radiation climate of the surroundings of Stockholm.—H. H. Kimball.
 C. E. P. Brooks and W. Quennel on the influence of Arctic ice on the subsequent distribution of pressure over the eastern North Atlantic and western Europe.—A. J. Henry.

Vol. 57, No. 4, April, 1929. Pp. 127-178, illus. Price 15¢.

CONTENTS

Projections for world maps.—C. F. Marvin.
 Wet and dry northers.—I. R. Tannehill.
 A critical test of the planetary hypothesis of sunspots.—Dinsmore Alter.
 Low relative humidity in Oregon.—Chas. I. Dague.
 Cloud height according to direction of motion.—A. F. Piippo.
 Tornadoes in Arkansas, April, 1929.—H. S. Cole.
 Tornadoes in Wisconsin, April, 1929.—W. P. Stewart.
 Hail on April 21, 1929.—J. L. Kendall, W. E. Barron, and R. A. Dyke.
 Squalls with rising barometer at Roseburg, Ore.—E. H. Fletcher.

THE OFFICIAL RECORD

This 8-page weekly publication contains official orders and miscellaneous information concerning the activities of the department, and such other matter as should be brought to the attention of employees and others who have to do with the department's work. The free list is confined to departmental employees, official cooperators, and the press. It may be purchased from the Superintendent of Documents, Government Printing Office, for 50¢ a year.

Vol. 8, No. 27, July 4, 1929.
 Vol. 8, No. 28, July 11, 1929.
 Vol. 8, No. 29, July 18, 1929.
 Vol. 8, No. 30, July 25, 1929.

PUBLIC ROADS

The results of investigations relating to the physical and economic problems of road building conducted by the Bureau of Public Roads and contributors outside the bureau are made available to road builders through this medium. Free distribution is restricted to State and county officials actually engaged in planning or constructing public highways, instructors in highway engineering, and periodicals upon an exchange basis. The subscription price is \$1 a year, domestic; \$1.50 a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

Vol. 10, No. 4. Pp. 65-84. June, 1929. Price, 10c.

CONTENTS

Mechanics of progressive cracking in concrete pavements. By H. M. Westergaard.
 Effect of type and gradation of coarse aggregate upon the strength of concrete. By W. F. Kellerman.

WEATHER OUTLOOK

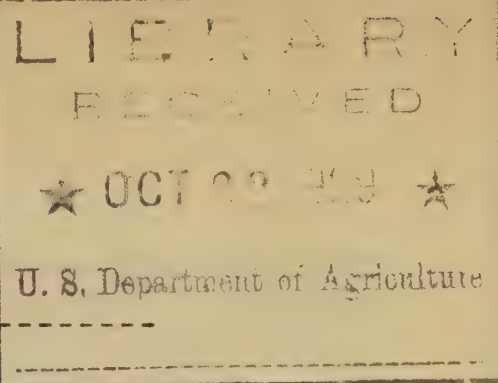
A weekly outlook for the various zones, prepared at and distributed from forecast centers of the Weather Bureau, as follows: Washington, D. C. (district 1, North and Middle Atlantic States; district 2, South Atlantic and East Gulf States; district 3, Ohio Valley and Tennessee); New Orleans, La. (district 4, Southern Plains and West Gulf States); Chicago, Ill. (district 5, region of Great Lakes; district 6, upper Mississippi and lower Missouri Valleys; district 7, northern and central Great Plains); Denver, Colo. (district 8, northern Rocky Mountain region; district 9, southern Rocky Mountain and Plateau regions); San Francisco, Calif. (district 10, far Western States). Limited edition. Not for general distribution.

For the period July 8-13. July 6, 1929.
 For the period July 15-20. July 13, 1929.
 For the period July 22-27. July 20, 1929.
 For the period July 29-Aug. 3. July 27, 1929.

WEEKLY WEATHER AND CROP BULLETIN

This publication gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. In addition, it shows the variation of temperature and rainfall from a normal week, total rainfall for the season in comparison with normal, and discusses amount of sunshine and cloudiness. The price is 50¢ a year, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

For the week ended July 2. No. 27. July 3, 1929.
 For the week ended July 9. No. 28. July 10, 1929.
 For the week ended July 16. No. 29. July 17, 1929.
 For the week ended July 23. No. 30. July 24, 1929.



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
MONTHLY LIST OF PUBLICATIONS

AUGUST, 1929

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

The loco-weed disease. By C. Dwight Marsh and A. B. Clawson, Bureau of Animal Industry, and W. W. Eggleston, Bureau of Plant Industry. Pp. 26, figs. 19. (Farmers' Bulletin 1054 F., Revised.) Price, 5¢.

Describes and illustrates the loco weed and various related plants, and gives symptoms of loco poisoning, with recommendations for treating locoed animals and for destroying the weeds.

Important cultivated grasses. By C. V. Piper, Bureau of Plant Industry. Pp. 39, figs. 26. (Farmers' Bulletin 1254 F., Revised.) Price, 5¢.

Discusses the history and regions of adaptation, and gives botanical descriptions for 21 important cultivated grasses. The weight, number of seed per pound, and rate of seeding are also included.

Making cellars dry. By George M. Warren, Bureau of Public Roads. Pp. 29, figs. 19. (Farmers' Bulletin 1572 F.) Price, 5¢.

Contains information concerning the location and construction of water-tight cellars and the best waterproofing and damp-proofing methods. Good materials and thorough workmanship are emphasized.

Oats in the North-Central States. By T. R. Stanton and F. A. Coffman, Bureau of Plant Industry. Pp. 28, figs. 20. (Farmers' Bulletin 1581 F.) Price, 5¢.

Gives up-to-date information on oat culture and varieties, and on chemical seed treatments to prevent smuts. Maps show the distribution of 1919 acreage of the seven leading varieties.

Preparation of bunched beets, carrots, and turnips for market. By William E. Lewis, Bureau of Agricultural Economics. Pp. 22, figs. 19. (Farmers' Bulletin 1594 F.) Price, 5¢.

Describes methods of harvesting, grading, packing, loading, and refrigerating bunched beets, carrots, and turnips practiced by successful shippers. Of interest to growers, packers, jobbers, and retailers.

The production of Johnson grass for hay and pasturage. By H. N. Vinall, Bureau of Plant Industry, and M. A. Crosby, Bureau of Agricultural Economics. Pp. 26, figs. 8. (Farmers' Bulletin 1597 F.) Price, 5¢.

Discusses the origin and distribution of Johnson grass, with recommendations covering the various steps in the production of hay from it.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Termites in buildings. By Thos. E. Snyder, Bureau of Entomology. Pp. 5, figs. 2. (Leaflet 31 L.) Price, 5¢.

Tells how to find out the presence of termites, how to build so they can't get in, and how to get them out and keep them out if they are already in.

Wild garlic and its control. By M. W. Talbot, Bureau of Plant Industry. Pp. 5, fig. 1. (Leaflet 43 L.) Price, 5¢.

Describes the plant and the cultural method of killing it on cultivated land, gives directions for its chemical eradication, and tells how to eliminate the garlic flavor in milk.

Farm grain storage. By E. G. Boerner, Bureau of Agricultural Economics, M. C. Betts and T. A. H. Miller, Bureau of Public Roads. Pp. 8, figs. 9. (Leaflet 46 L.) Price, 5¢.

Sets forth the many advantages derived from farm grain storage and suggests storages of different capacities and construction, with illustrations.

Cotton-louse control. By B. R. Coad, J. W. Folsom, and R. C. Gaines, Bureau of Entomology. Pp. 4, fig. 1. (Leaflet 53 L.) Price, 5¢.

Intended primarily for the use of cotton planters who wish to control the cotton louse. The leaflet tells what insecticide to use, how to prepare it, and how to use it.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

The gluing of wood. By T. R. Truax, Forest Service. Pp. 78, figs. 18. (Department Bulletin 1500 D.) Price, 25¢.

Brings together essential information about glues and gluing, sets forth important principles of control in the gluing operation, and outlines methods that have been found to give satisfactory results.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Tobacco cutworms. By S. E. Crumb, Bureau of Entomology. Pp. 180, figs. 19, pls. 9. (Technical Bulletin 88 T.) Price, 35¢.

Describes the cutworms at the various stages of their existence, records observations made on five important groups, and discusses natural and artificial methods of control.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Varietal standardization of sorgo and the selection of seed. By H. B. Cowgill, Bureau of Plant Industry. Pp. 23, figs. 16. (Circular 52 C.) Price, 10¢.

Intended primarily for growers of sorgo for sirup-making purposes and for seedsmen who handle sorgo seed to encourage uniformity in trade practice with reference to the nomenclature of sorgo varieties.

Cyanamid, its uses as a fertilizer material. By F. E. Allison, Bureau of Chemistry and Soils. Pp. 12, figs. 8. (Circular 64 C.) Price, 5¢.

Explains the manufacture of cyanamid, describes its properties and uses, both alone and in mixed fertilizers, and compares fertilizer practices in Europe with those of the United States.

Azaleas and rhododendrons from seed. By B. Y. Morrison, Bureau of Plant Industry. Pp. 8, figs. 3. (Circular 68 C.) Price, 5¢.

Intended to provide simple directions for both amateur gardeners and nurserymen who might wish to raise azaleas and rhododendrons from seed, without the use of a heated greenhouse.

Heat and time of exposure necessary to kill larvae of the European corn borer in ear corn. By George W. Barber, Bureau of Entomology. Pp. 14, figs. 4. (Circular 71 C.) Price, 5¢.

Discusses heating apparatus used, factors influencing the results of the heating tests, and the effect of heating on the germination of the kernels and subsequent growth of the plant.

Financial settlements of defaulting irrigation enterprises. By Wells A. Hutchins, Bureau of Public Roads. Pp. 46. (Circular 72 C.) Price, 10¢.

Discusses the character of settlements that have been affected and presents in detail a number of typical settlements that have been made or that are now in process of adjustment.

Chemical injury to watermelons in transit. By W. W. Gilbert, Bureau of Plant Industry, and F. C. Meier, Office of Cooperative Extension Work. Pp. 10, figs. 8. (Circular 74 C.) Price, 5¢.

An investigation of reports received from various railroad companies and shippers. Of interest in the Middle Atlantic, Southern, Middle Western States, and Iowa, Kansas, Colorado, and California.

The true cricket—A serious cotton pest in California. By E. A. McGregor, Bureau of Entomology. Pp. 8. (Circular 75 C.) Price, 5¢.

Primarily for cotton farmers in California. The discussion covers the life history, habits, and damage caused by the insect, together with suggestions for control.

Farmers' cooperative associations in the United States, 1929. By Chris L. Christensen, Bureau of Agricultural Economics. Pp. 66, figs. 8. (Circular 94 C.) Price, 15¢.

Discusses in detail the cooperative marketing of various agricultural products. The associations marketing the latter are mentioned with a brief outline of their history and organization.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The strength of North American woods. By H. S. Betts, Forest Service. Pp. 18. (Miscellaneous Publication 46 M.) Price, 5¢.

Shows in tabular form the various properties, including weight, shrinkage, bending and compression strength, stiffness, hardness, shock resisting ability, etc., of 129 different woods grown in the U. S.

The livestock review for 1928. By H. M. Conway, Bureau of Agricultural Economics. Pp. 36, figs. 7. (Miscellaneous Publication 54 M.) Price, 10¢.

Gives, in addition to a general summary, detailed information concerning market supplies, prices, demand, and outlook for each branch of the livestock industry.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. B. A. I. S. R. A. No. 266, June. Pp. 53-60. August, 1929. B. A. I. S. R. A. No. 267, July. Pp. 61-68. August, 1929.

Notices of Judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. Pp. 107-119. August, 1929. (N. J., F. D. 16176-16200.)

Notices of Judgment under the insecticide act. Compiled by the Food, Drug, and Insecticide Administration. Pp. 43-53. August, 1929. (N. J., I. F. 1151-1165.)

Modification of nursery stock, plant, and seed quarantine regulations. Amendment No. 1 of revised rules and regulations supplemental to Notice of Quarantine No. 37. P. 1. August 1, 1929. (Plant Quarantine and Control Administration, Quarantine No. 37.)

Intended primarily for plant importers. Investigation has shown that satisfactory stocks of the fruits specified can be produced in this country.

Notice of permit requirement for entry of chestnuts and acorns from foreign countries. Compiled by Plant Quarantine and Control Administration. P. 1. August, 1929. (Service and Regulatory Announcement, Plant Quarantine and Control Administration.)

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists.

Soil Survey of Monroe County, Wisconsin. By W. J. Geib, A. C. Anderson, M. J. Edwards, and E. H. Bailey, U. S. Department of Agriculture; and Homer Chapman, Robert Bartholomew, and O. L. Stockstad, Wisconsin Geological and Natural History Survey. Pp. 1315-1373, fig. 1, map. Series, 1923, No. 40. 1929. Price, 25¢.

Soil survey of Muskegon County, Michigan. By L. C. Wheeting and A. E. Matthews, Michigan Agricultural Experiment Station. Pp. 25, fig. 1, map. Series 1924, No. 22. 1929. Price, 15¢.

Soil survey of Pierce County, Wisconsin. By W. J. Geib, in charge, M. J. Edwards and E. H. Templin, U. S. Department of Agriculture, and H. R. Lathrop, Wisconsin Geological and Natural History Survey. Pp. 1471-1504, fig. 1, map. Series, 1923, No. 43. 1929. Price, 20¢.

Soil survey of Summers County, West Virginia. By J. A. Kerr. Pp. 31, fig. 1, map. Series, 1924, No. 21. 1929. Price, 15¢.

PERIODICALS

AGRICULTURAL SITUATION. Vol. 13, No. 8, Pp. 24. August 1, 1929. Price 5¢.

This 24-page publication issued monthly by the Bureau of Agricultural Economics contains a brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products. *Free distribution* is limited to department employees, State college workers, cooperators, libraries, and the press. The subscription price is 25¢ a year, domestic; 40¢ a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

CLIP SHEET. Nos. 579-587. August 4, 11, 18, 25, 1929.

The Clip Sheet is made up of short interesting stories concerning the department and the application of new ideas and discoveries in the field of agriculture and is issued weekly. It is distributed free to newspapers and other interested publications and to writers. There is no subscription list.

CROPS AND MARKETS. Vol. 6, No. 7. July, 1929.

Statistics concerning crops and livestock estimates and market information are contained in this monthly publication. It contains reports on supplies, stocks, commercial movement, condition and prices of agricultural products covered in the work of marketing and crop estimating, and studies of prices and demand both foreign and domestic. Free distribution is restricted to those who collaborate with the department. The subscription price is 60¢ a year, domestic; 85¢ a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

DAILY WEATHER MAPS.

Edition 1 contains forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Editions issued at Washington, D. C., are 25¢ a month, \$2.50 a year. Edition 2 contains forecasts for the entire United States. The subscription price is 30¢ a month, \$3 a year. Neither edition furnished in quantities unless the order is placed with the Superintendent of Documents in advance of issue. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

EXPERIMENT STATION RECORD. Vol. 61, No. 1. July, 1929. Price 10¢.

The Experiment Station Record is a technical review of the world's scientific literature pertaining to agriculture, each volume containing about 3,500 abstracts of current research. Free distribution is restricted mainly to workers in agricultural colleges and experiment stations and similar institutions, libraries, and exchanges. It is issued in two volumes a year, of 10 numbers each. The subscription price is 75¢ a volume, domestic; \$1.25 a volume, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

FOREST WORKER. Vol. 5, No. 4. July, 1929.

The Forest Worker contains news of State forestry, forestry education and extension, private forestry, and the work of the Forest Service. Distribution is free to certain Government officials and forestry organizations. The subscription price is 25¢ a year, domestic; 35¢ a year, foreign, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

JOURNAL OF AGRICULTURAL RESEARCH. Vol. 39, No. 3. August 1, 1929. 20¢.

CONTENTS: A study of decay in citrus fruits produced by inoculations with known mixtures of fungi at different constant temperatures.—(Calif.-51). Giulio Savastano and Howard S. Fawcett.

Cotton root-rot investigations in Arizona.—(G-678). C. J. King and H. F. Loomis.

Grain losses in feeding corn silage to dairy cows.—(Okla.-14). R. B. Becker and Willis D. Gallup.

— Vol. 39, No. 4. August 15, 1929. 20¢.

CONTENTS: Influence of atmospheric and soil moisture upon seed setting in red clover.—(G-665). E. A. Hollowell.

Aerial crown gall of the apple.—(G-685). E. A. Siegler and R. B. Piper.

Some factors involved in the winterkilling of alfalfa.—(G-686). J. L. Weimer.

Relation of temperature of fermentation to quality of sauerkraut.—(Wis.-46). E. A. Marten, W. H. Peterson, E. B. Fred, and W. E. Vaughn.

Comparative value of the size of *Phytophthora sporangia* obtained under standard conditions.—(W. Va.-6). Leon H. Leonian and Herbert L. Geer.

The Journal of Agricultural Research is of primary interest to agricultural scientists and advanced students only. Free distribution is limited to certain libraries and to institutions or departments doing research work. The Superintendent of Documents will receive subscriptions for this publication; \$4 a year, domestic; \$5.25 a year, foreign. It is issued in 2 volumes a year, of 12 numbers each. Each article in the Journal is reprinted as a "separate." The number of reprints or separates is limited. They are distributed free to those desiring them as long as the supply lasts.

MONTHLY WEATHER REVIEW. Vol. 56, 1928, Index. Pp. xi. Price, 5¢.

This publication contains (1) meteorological contributions and bibliography, (2) an interpretative summary and charts of the weather of the month in the United States, and on adjacent oceans, and (3) climatological tables dealing with the weather of the month. The subscription price is \$1.50 a year, domestic; \$2.25 a year, foreign; payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

PUBLIC ROADS. Vol. 10, No. 5. Pp. 85-100. July, 1929. Price, 10¢.

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MONTHLY LIST OF PUBLICATIONS

SEPTEMBER, 1929

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Seed potatoes and how to produce them. William Stuart, Bureau of Plant Industry. Pp. 18, figs. 7. (Farmers' Bulletin 1332 F., Revised) Price, 5¢.

A brief history of the potato production in U. S. from 1868 to 1927. Seed treatment, preparation and fertilization of the soil, cultural practices, harvesting, and storage are summarized.

Beef-cattle production in the range area. Virgil V. Parr, Bureau of Animal Industry. Pp. 44, figs. 20. (Farmers' Bulletin 1395 F., Revised) Price, 10¢.

A résumé of the various types of range available. Discusses the choice and improvement of ranching property, the selection of breeding stock, and the management of the breeding herd.

Farmers' Bulletins Nos. 1551-1575. Title page and table of contents. Pp. 8. Price, 5¢.

Protection of log cabins, rustic work, and unseasoned wood from injurious insects.

R. A. St. George, Bureau of Entomology. Pp. 20, figs. 23. (Farmers' Bulletin 1582 F.) Price, 5¢.

Tells how to prevent or check practically all insect damage by cutting the trees at certain seasons and by treating the wood with preventive and remedial substances.

Spring-sown red oats. By T. R. Stanton and F. A. Coffman, Bureau of Plant Industry. Pp. 18, figs. 12. (Farmers' Bulletin 1583 F.) Price, 5¢.

Gives directions for making the growing of oats more generally profitable and lists the essentials for success in the production of red oats.

Varieties of hard red winter wheat. J. Allen Clark and Karl S. Quisenberry, Bureau of Plant Industry. Pp. 13, figs. 4. (Farmers' Bulletin 1585 F.)

Price, 5¢.

Describes the more important varieties, with their histories, and tells where each is best adapted. Contains the latest available information for farmers producing hard red winter wheat.

Trembles. C. Dwight Marsh, Bureau of Animal Industry. Pp. 10, figs. 7. (Farmers' Bulletin 1593 F.) Price, 5¢.

A summary of facts regarding the disease, including descriptions of its cause, means of preventing it, and other essential facts.

Mountain beavers in the Pacific Northwest: Their habits, economic status, and control. Theo. H. Scheffer, Bureau of Biological Survey. Pp. 18, figs. 13. (Farmers' Bulletin 1598 F.) Price, 5¢.

Gives an account of the life history of the beaver, describes its feeding habits, and recommends methods for its control where necessary.

Collection and preservation of insects for use in the study of agriculture. Margaret C. Mansuy, Bureau of Entomology. Pp. 19, figs. 18. (Farmers' Bulletin 1601 F.) Price, 5¢.

Gives general information regarding the methods of securing and preserving illustrative material and also contains hints that may be useful to amateur collectors in caring for the specimens in their collections.

Reed canary grass. By H. A. Schoth, Bureau of Plant Industry. Pp. 10, figs. 5. (Farmers' Bulletin 1602 F.) Price, 5¢.

Describes the grass, its climatic adaptations, and soil requirements. Gives information concerning seeding and harvesting for hay. Experiments show value of grass for pasturage, silage, and soiling.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Pork in preferred ways. Lucy M. Alexander, Bureau of Home Economics and Bureau of Animal Industry, and Fanny Walker Yeatman, Bureau of Home Economics. Pp. 8, illus. (Leaflet 45 L.) Price, 5¢.

Includes recipes for preparing the most important cuts, together with suggestions for fruit and vegetable combinations particularly appetizing with pork. Recommends insertion of thermometer in the meat throughout cooking.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

Forest planting in the Lake States. Joseph Kittredge, jr., Forest Service. Pp. 88, figs. 7, pls. 6. (Department Bulletin 1497 D.) Price, 20¢.

Outlines the essentials of an adequate planting policy for reforesting the 20,000,000 acres of denuded land in Minnesota, Wisconsin, and Michigan, based on a study of about 400 different forest plantations.

Timber growing and cutting practice in the lodgepole pine region. M. W. Thompson, Forest Service. Introduction by W. B. Greeley. Pp. 34, fig. 1, pls. 8. (Department Bulletin 1499 D.) Price, 15¢.

Presents the measures necessary to keep forest land productive and the preferred practices for obtaining fuller and more valuable timber crops in Montana, Wyoming, Colorado, Utah, southeastern Idaho, and northeastern Nevada.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

A study of the oil burner as applied to domestic heating. By Arthur H. Senner, Bureau of Public Roads. Pp. 84, figs. 37, pls. 2. (Technical Bulletin 109 T.) Price, 20¢.

Deals with the more technical phases of an investigation of a number of oil burners of different design. Tests indicate performance expected of various types, their adaptability and operating costs.

Arrow grass (*Triglochin maritima*) as a stock-poisoning plant. C. Dwight Marsh, A. B. Clawson, and G. C. Roe, Bureau of Animal Industry. Pp. 15, figs. 4. (Technical Bulletin 113 T.) Price, 5¢.

Describes the plant and cites two typical cases of stock poisoning. Discusses symptoms and duration of sickness and suggests remedies. The poisonous green plant loses its toxicity in drying.

Sleepy grass (*Stipa vaseyi*) as a stock-poisoning plant. By C. Dwight Marsh and A. B. Clawson, Bureau of Animal Industry. Pp. 20, figs. 5. (Technical Bulletin 114 T.) Price, 5¢.

Reviews history of cases of reported poisoning, describes the plant, and discusses the results of experimental work on cattle, horses, and sheep. The plant does not cause death.

Influence of freezing of seed potatoes on viability and yield. R. C. Wright, Walter M. Peacock and P. M. Lombard, Bureau of Plant Industry. Pp. 11, figs. 5. (Technical Bulletin 119 T.) Price, 5¢.

Of interest to growers and seed-potato dealers. Results are given of a number of experiments in which seed potatoes were frozen to different degrees of injury before planting.

Development of runners and runner plants in the strawberry. George M. Darrow, Bureau of Plant Industry. Pp. 28, figs. 14. (Technical Bulletin 122 T.) Price, 10¢.

Presents results of several studies dealing with different phases of runner and runner-plant production and development, together with a brief review of the information published on the subject.

Breeding hard red winter wheats for winter hardiness and high yield. By Karl S. Quisenberry and J. Allen Clark, Bureau of Plant Industry. Pp. 28. (Technical Bulletin 136 T.) Price, 5¢.

Discusses the importance of these wheats, describes the material and methods used in the tests, and the results of growing the hybrid material. Recommends various cultural practices to solve winterkilling problem.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Work of the Newlands Field Station, Nevada, 1924-1927. E. W. Knight, Bureau of Plant Industry. Pp. 32, figs. 4. (Circular 69 C.) Price, 10¢.

Touches upon the following principal points: Varietal and cultural tests of field crops; production of horticultural crops; experiments in the reclamation of alkali soils; and livestock experiments.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

A history of agricultural education in the United States, 1785-1925. By Alfred Charles True, Extension Service. Pp. 436, figs. 25. (Miscellaneous Publication 36 M.) Price, \$1.00. (*For sale only.*)

Covers the foundations of the American system of agricultural education, and its development as a definite movement; traces growth of agricultural colleges; and describes various Federal acts aiding agricultural education.

Low-cutting devices for harvesting corn. By Frank Irons and W. J. Parvis, Bureau of Public Roads. Pp. 36, figs. 81. (Miscellaneous Publication 56 M.) Price, 15¢.

Describes four makes of corn binders and a low-cutting hand hoe, made at little cost and developed as a result of exhaustive tests under a wide variety of field conditions.

Directory of officials and organizations concerned with the protection of birds and game: 1929. Compiled by Talbott Denmead and Frank G. Grimes, Bureau of Biological Survey. Pp. 12. (Miscellaneous Publication 57 M.) Price, 5¢.

Issued for convenient use by game-law enforcement officials, game and bird protection and conservation societies and organizations, and others desiring to procure information concerning game laws and game conditions generally.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Information, instructions, rulings, etc., for August, concerning the work of the Bureau of Animal Industry. Pp. 69-76. September, 1929. (Service and Regulatory Announcement, Bureau of Animal Industry, No. 268.)

Notices of judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. Pp. 75-105. August, 1929. (N. J., F. D. 16151-16175.)

Notices of judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. Pp. 121-136. September, 1929. (N. J., F. D. 16201-16225.)

Mediterranean fruit-fly quarantine. Revision of quarantine and regulations. Notice of Quarantine No. 68 (Revised). Effective September 1, 1929. Pp. 11. (Plant Quarantine and Control Administration, Quarantine 68.)

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

Soil survey of the Chico Area, California. E. B. Watson and T. W. Glassey, U. S. Department of Agriculture, and R. Earle Storie and Stanley W. Cosby, University of California. Pp. 48, fig. 1, pls. 2, map. (No. 4, Series 1925.) Price, 15¢.

PERIODICALS

Agricultural situation. Vol. 13, No. 9. Pp. 24. September 1, 1929. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 16, No. 5. May, 1929.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Clip sheet. Nos. 583-588. September 1, 8, 15, 22, 29; October 6. 1929.

Short interesting stories concerning the department and the application of new ideas and discoveries. Distribution limited to newspapers and other interested publications and to writers. Requests must state purpose for which it is to be used.

Crops and markets. Vol. 6, No. 8. August; No. 9. September. 1929. Price 5¢ a copy, 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, condition and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily weather maps. Limited editions. Not for general distribution.

Edition 1 contains forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Editions issued at Washington, D. C., are 25¢ a month, \$2.50 a year. Edition 2 contains forecasts for the entire United States; 30¢ a month, \$3 a year. Neither edition furnished in quantities unless the order is placed with the Superintendent of Documents, in advance of issue. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹

Experiment station record. Vol. 61, No. 2, August, 1929. Price, 10¢.

— Vol. 61, No. 3, August, 1929. Abstract Number. Price, 10¢.

A technical review of the world's scientific literature pertaining to agriculture, each volume containing about 3,500 abstracts of current research. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Journal of agricultural research. Vol. 38. Index. January 1-June 15, 1929. Price, 5¢.

— Vol. 39, No. 5. illus. September 1, 1929. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each.

Monthly weather review. Vol. 57, No. 5. Pp. 179-229, illus. May, 1929. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The Official Record. Vol. 8, Nos. 36-39. September 5, 12, 19, 26. 1929. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Public roads. Vol. 10, No. 6. Pp. 101-116. August, 1929. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹

Makes available to road builders the results of investigations relating to the physical and economic problems of road building.

Weather outlook. Limited edition. Not for general distribution.

Prepared at and distributed from the following forecast centers of the Weather Bureau: Washington, D. C., New Orleans, La., Chicago, Ill., Denver, Colo.; and San Francisco, Calif.

Weekly weather and crop bulletin. Not for general distribution.

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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
MONTHLY LIST OF PUBLICATIONS ¹

OCTOBER, 1929

 Send no remittances to the U. S. Department of Agriculture

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices stated herein.

 Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

Collection and preservation of plant material for use in the study of agriculture.

H. B. Derr, Bureau of Plant Industry, and C. H. Lane, Office of Experiment Stations. 24 p., figs. 13. (Farmers' Bulletin 586 F., Revised.) Price, 5¢.

Foot-and-mouth disease. John R. Mohler, Bureau of Animal Industry. 14 p., figs. 7. (Farmers' Bulletin 666 F., Revised.) Price, 5¢.

Farmers' Bulletins 1001-1500. Index. Compiled by Mabel G. Hunt, Office of Information. 371 p. Price, 50¢.

Angoumois grain moth. E. A. Back, Bureau of Entomology. 18 p., figs. 16. (Farmers' Bulletin 1156 F., Revised.) Price, 5¢.

Poison ivy and poison sumac and their eradication. C. V. Grant and A. A. Hansen, Bureau of Plant Industry. 14 p., figs. 16. (Farmers' Bulletin 1116 F., Revised.) Price, 5¢.

Parasites and parasitic diseases of sheep. Maurice C. Hall, Bureau of Animal Industry. 36 p., figs. 30. (Farmers' Bulletin 1330 F., Revised.) Price, 10¢.

Culture of citrus fruits in the Gulf States. E. D. Vosbury and T. Ralph Robinson, Bureau of Plant Industry. 45 p., figs. 14. (Farmers' Bulletin 1343 F., Revised.) Price, 10¢.

Currants and gooseberries: Their culture and relation to white-pine blister rust. George M. Darrow and S. B. Detwiler, Bureau of Plant Industry. With contributions by others. 43 p., figs. 27. (Farmers' Bulletin 1398 F., Revised.) Price, 10¢.

Clearing land of brush and stumps. George R. Boyd, Bureau of Public Roads. 34 p., figs. 19. (Farmers' Bulletin 1526 F., Revised.) Price, 10¢.

Cigar-tobacco production in Pennsylvania. Otto Olson, Bureau of Plant Industry. 22 p., figs. 10. (Farmers' Bulletin 1580 F.) Price, 5¢.

Fire-protective construction on the farm. Prepared by the Bureaus of Chemistry and Soils, Public Roads, and Agricultural Economics, in cooperation with the National Fire Protection Association. 22 p., figs. 12. (Farmers' Bulletin 1590 F.) Price, 5¢.

Transplanting trees and shrubs. Furman Lloyd Mulford, Bureau of Plant Industry. 34 p., figs. 31. (Farmers' Bulletin 1591 F.) Price, 10¢.

Scab of wheat and barley and its control. By James G. Dickson, Bureau of Plant Industry and Wisconsin Agricultural Experiment Station, and E. B. Mains, Bureau of Plant Industry and Purdue University Agricultural Experiment Station. 18 p., figs. 16. (Farmers' Bulletin 1599 F.) Price, 5¢.

¹ Succeeds post-card list, beginning with July, 1929. /

- Planting and care of shelter belts on the northern Great Plains. Robert Wilson, Bureau of Plant Industry. 13 p., figs. 5. (Farmers' Bulletin 1603 F.) Price, 5¢.
- Dairy-herd-improvement associations, and stories the records tell. J. C. McDowell, Bureau of Dairy Industry. 21 p., figs. 13. (Farmers' Bulletin 1604 F.) Price, 5¢.
- Soybean hay and seed production. W. J. Morse, Bureau of Plant Industry. 13 p., figs. 7. (Farmers' Bulletin 1605 F.) Price, 5¢.
- Game laws for the season 1929-30. A summary of Federal, State, and provincial statutes. Frank L. Earnshaw and Frank G. Grimes, Bureau of Biological Survey. 46 p. (Farmers' Bulletin 1616 F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

- Trichinosis: A disease caused by eating pork. By Benjamin Schwartz, Bureau of Animal Industry. 8 p., figs. 4. (Leaflet 34 L., Revised.) Price, 5¢.
- Woods burning in the South. Prepared by the Forest Service. 4 p. (Leaflet 40 L.) Price, 5¢.
- Reindeer recipes. Louise Stanley and Fanny Walker Yeatman, Bureau of Home Economics. 8 p., illus. (Leaflet 48 L.) Price, 5¢.
- Ice creams frozen without stirring. Louise Stanley and Jessie Alice Cline, Bureau of Home Economics. 8 p., illus. (Leaflet 49 L.) Price, 5¢.
- Suits for the small boy. Clarice Louisba Scott, Bureau of Home Economics. 8 p., figs. 9. (Leaflet 52 L.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

- Methods of harvesting grain sorghums. John H. Martin, Bureau of Plant Industry; L. A. Reynoldson and B. E. Rothgeb, Bureau of Agricultural Economics; and W. M. Hurst, Bureau of Public Roads. 35 p., figs. 18. (Technical Bulletin 121 T.) Price, 10¢.
- An economic study of livestock possibilities in the southeastern coastal plain. R. D. Jennings and M. A. Crosby, Bureau of Agricultural Economics. 96 p., figs. 24. (Technical Bulletin 127 T.) Price, 20¢.
- Alteration of muscovite and biotite in the soil. I. A. Denison, William H. Fry, and P. L. Gile, Bureau of Chemistry and Soils. 32 p. (Technical Bulletin 128 T.) Price, 10¢.
- The chestnut curculios. Fred E. Brooks and Richard T. Cotton, Bureau of Entomology. 24 p., pls. 6. (Technical Bulletin 130 T.) Price, 10¢.
- The pandora moth, a periodic pest of western pine forests. J. E. Patterson, Bureau of Entomology. 20 p., figs. 8. (Technical Bulletin 137 T.) Price, 5¢.
- Studies on the fall army worm in the Gulf coast district of Texas. R. A. Vickery, Bureau of Entomology. 64 p. (Technical Bulletin 138 T.) Price, 10¢.
- The spontaneous combustion of hay. Charles A. Browne, Bureau of Chemistry and Soils. 39 p., figs. 8. (Technical Bulletin 141 T.) Price, 10¢.
- Irrigated crop rotations in southern Montana. By Stephen H. Hastings and Dan Hansen, Bureau of Plant Industry. 32 p., figs. 2. (Technical Bulletin 144 T.) Price, 10¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

- Conservation of wastes from the small-scale slaughter of meat animals. G. P. Walton and R. F. Gardiner, Bureau of Chemistry and Soils. 20 p., figs. 8. (Circular 63 C.) Price, 5¢.
- Cacti. David Griffiths, Bureau of Plant Industry, and Charles Henry Thompson, Missouri Botanical Garden. 26 p., figs. 2, pls. 19. (Circular 66 C.) Price, 25¢.
- Condition of farmers in a white-farmer area of the cotton piedmont, 1924-1926. Howard A. Turner and L. D. Howell, Bureau of Agricultural Economics. 48 p., fig. 2. (Circular 78 C.) Price, 10¢.
- The application of statistical methods to seed testing. G. N. Collins, Bureau of Plant Industry. 18 p., figs. 2. (Circular 79 C.) Price, 5¢.

- Removing smut from Pacific Northwest wheat by washing. E. N. Bates, G. P. Bodnar, and R. L. Baldwin, Bureau of Agricultural Economics. 24 p., figs. 6. (Circular 81 C.) Price, 5¢.
- Problems in cooperation and experiences of farmers in marketing potatoes. T. B. Manny, Bureau of Agricultural Economics. 24 p. (Circular 87 C.) Price, 5¢.
- Nutritive value and cost of food served to college students. Edith Hawley, Bureau of Home Economics. 20 p. (Circular 89 C.) Price, 5¢.
- Marketing fresh fruit in Europe. Edwin Smith, Bureau of Agricultural Economics. 120 p., figs. 23. (Circular 90 C.) Price, 25¢.
- The Blakemore strawberry. George M. Darrow and George F. Waldo, Bureau of Plant Industry. 10 p., figs. 6, pls. 2. (Circular 93 C.) Price, 10¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

- National wild-life reservations. Compiled by Division of Game and Bird Conservation, Bureau of Biological Survey. 10 p., figs. 2. (Miscellaneous Publication 51 M.) Price, 5¢.
- Disinfecting seed potatoes. Freeman Weiss. 3 p. (Miscellaneous Publication 53 M.) Price, 5¢.
- Low-cutting devices for harvesting corn. Frank Irons and W. J. Parvis, Bureau of Public Roads. 36 p., figs. 81. (Miscellaneous Publication 56 M.) Price, 15¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

- Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. pp. 77-85. September, 1929. (S. R. A., B. A. I., No. 269.) Price, 5¢.
- Modification of pink-bollworm quarantine. Amendment No. 4 to rules and regulations supplemental to Notice of Quarantine No. 52 (Revised.) 2 p. (P. Q. C. A.-Q. 52. Amdt. 4.) Price, 5¢.
- Notices of Judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. N. J., F. D. 16226-16250; pp. 137-147. September, 1929; N. J., F. D. 16251-16275; pp. 149-168. October, 1929; N. J., F. D. 16276-16300; pp. 169-180. October, 1929; N. J., F. D. 16301-16325; pp. 181-192. October, 1929; N. J., F. D. 16326-16350; pp. 193-203. October, 1929.
- Plant Quarantine and Control Administration. Service and Regulatory Announcements. Index, 1928. 3 p. Price, 5¢.
- Plant Quarantine and Control Administration. Record of current work, January 1 to March 31, 1929. 48 p. (S. R. A., P. Q. C. A. No. 98.) Price, 5¢.
- Regulations governing the recognition of breeds and purebred animals. 6 p. (B. A. I. Order 319.) Price, 5¢.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

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OTHER PUBLICATIONS

- Cooperative extension work, 1927. Prepared by the Office of Cooperative Extension Work. 122 p., figs. 29, map. Price, 25¢.
- Plant material introduced by the Office of Foreign Plant Introduction, Bureau of Plant Industry, January 1 to March 31, 1927 (Nos. 70868 to 73049). 70 p. (Inventory No. 90.) Price, 10¢.
- Plant material introduced by the Office of Foreign Plant Introduction, Bureau of Plant Industry, April 1 to June 30, 1927 (Nos. 73050 to 74212). 46 p. (Inventory 91.) Price, 10¢.
- Report of the Alaska Agricultural Experiment Stations, 1928. 39 p., figs. 13. Price, 10¢.
- Report on the agricultural experiment stations, 1928. E. W. Allen, W. H. Beal, and H. M. Steece. 104 p. Price, 20¢.

PERIODICALS

- Agricultural Situation.** Vol. 13, No. 10. October 1, 1929. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹
A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.
- Climatological Data.** Vol. 16, No. 6. June, 1929.
In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.
- Crops and Markets.** Vol. 6, No. 10. October, 1929. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹ Free distribution limited to cooperators.
Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, condition and prices of agricultural products; and studies of prices and demand, both foreign and domestic.
- Daily Weather Maps.** Limited editions. Not for general distribution.
Edition 1 contains forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Editions issued at Washington, D. C., are 25¢ a month, \$2.50 a year. Edition 2 contains forecasts for the entire United States; 30¢ a month, \$3 a year. Neither edition furnished in quantities unless the order is placed with the Superintendent of Documents, in advance of issue. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹
- Experiment Station Record.** Vol. 61, No. 4. September, 1929. Price, 10¢.
A technical review of the world's scientific literature pertaining to agriculture, each volume containing about 3,500 abstracts of current research. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.
- Forest Worker.** Vol. 5, No. 5. September, 1929. Price, 5¢ a copy; 25¢ a year, domestic; 35¢ a year, foreign.¹
News of State forestry, forestry education, private forestry, and the work of the Forest Service.
- Journal of Agricultural Research.** Vol. 39, No. 6, September 15; No. 7, October 1, 1929. Illus. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign.¹
Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each.
- Monthly Weather Review.** Vol. 57, No. 6, June; No. 7, July, 1929. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹
Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.
- The Official Record.** Vol. 8, Nos. 40-44. October 3, 10, 17, 24, 31, 1929. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹
Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.
- Public Roads.** Vol. 10, No. 8. October, 1929. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year, foreign.¹
Makes available to road builders the results of investigations relating to the physical and economic problems of road building.
- Weather Outlook.** Limited edition. Not for general distribution.
Prepared at and distributed from the following forecast centers of the Weather Bureau: Washington, D. C., New Orleans, La., Chicago, Ill., Denver, Colo.; and San Francisco, Calif.
- Weekly Weather and Crop Bulletin.** Not for general distribution.
Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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
MONTHLY LIST OF PUBLICATIONS ¹

NOVEMBER, 1929

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GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Production of clean milk. Ernest Kelly, Bureau of Dairy Industry. 18 p., figs. (Farmers' Bulletin 602 F., Revised.) Price, 5¢.

Cooling milk and cream on the farm. Revised by R. P. Hotis, Bureau of Dairy Industry. 13 p., figs. 7. (Farmers' Bulletin 976 F., Revised.) Price, 5¢.

Beautifying the farmstead. Furman Lloyd Mulford, Bureau of Plant Industry. 38 p., figs. 42. (Farmers' Bulletin 1087 F., Revised.) Price, 10¢.

Proso, or hog millet. John H. Martin, Bureau of Plant Industry. 13 p., figs. 4. (Farmers' Bulletin 1162 F., Revised.) Price, 5¢.

Growing annual flowering plants. L. C. Corbett and F. L. Mulford, Bureau of Plant Industry. 62 p., figs. 60. (Farmers' Bulletin 1171 F., Revised.) Price, 15¢.

The stock-poisoning death camas. C. Dwight Marsh and A. B. Clawson, Bureau of Animal Industry. 10 p., figs. 7. (Farmers' Bulletin 1273 F., Revised.) Price, 5¢.

Methods and equipment for home laundering. Prepared by the division of textiles and clothing, Bureau of Home Economics. 37 p., figs. 10. (Farmers' Bulletin 1497 F., Revised.) Price, 5¢.

Farm and poultry raising. M. A. Jull, Bureau of Animal Industry. 28 p., figs. 21. (Farmers' Bulletin 1524 F., Revised.) Price, 5¢.

Farm drainage. Lewis A. Jones, Bureau of Public Roads. 25 p., figs. 18. (Farmers' Bulletin 1606 F.) Price, 5¢.

The nematode disease of wheat and rye. R. W. Leukel, Bureau of Plant Industry. 12 p., figs. 8. (Farmers' Bulletin 1607 F.) Price, 5¢.

The operation and care of the combined harvester-thresher. W. M. Hurst, Bureau of Public Roads. 44 p., figs. 9. (Farmers' Bulletin 1608 F.) Price, 5¢.

¹ Succeeds post-card list beginning with July, 1929.

- Lettuce growing. W. R. Beattie, Bureau of Plant Industry. 30 p., figs. 20. (Farmers' Bulletin 1609 F.) Price, 5¢.
- Dairy farming for beginners. J. B. Shepherd, Bureau of Dairy Industry. 14 p., figs. 7. (Farmers' Bulletin 1610 F.) Price, 5¢.
- Fur laws for the season 1929-30. Frank L. Earnshaw and Frank G. Grimes, Bureau of Biological Survey. 30 p. (Farmers' Bulletin 1618 F.) Price, 5¢.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

- Hygiene in fox farming. Karl B. Hanson, Bureau of Biological Survey. 6 p., figs. 4. (Leaflet 47 L.) Price, 5¢.
- How to make a cat trap. James Silver and Frank N. Jarvis, Bureau of Biological Survey. 4 p., fig. 1. (Leaflet 50 L.) Price, 5¢.
- Improving cattle in areas freed of ticks. John R. Mohler, Bureau of Animal Industry. 8 p., figs. 6. (Leaflet 51 L.) Price, 5¢.

DEPARTMENT BULLETINS

The Department Bulletins are technical or scientific in nature and apply to a special crop, industry, or locality. This series ends with No. 1500, and is succeeded by the Technical Bulletin series. The editions are limited.

- Legal phases of cooperative associations. L. S. Hulbert, Bureau of Agricultural Economics. 126 p. (Department Bulletin 1106 D., Revised.) Price, 20¢.
- Cover type and fire control in the national forests of northern California. S. B. Show and E. I. Kotok, Forest Service. 36 p., figs. 11. (Department Bulletin 1495 D.) Price, 10¢.

DEPARTMENT CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Department Bulletin series.

- The range crane flies in California. C. M. Packard and B. G. Thompson, Bureau of Entomology. 8 p., figs. 5. (Department Circular 172, Revised.) Price, 5¢.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

- Imported insect enemies of the gipsy moth and the brown-tail moth. A. F. Burgess and S. S. Crossman, Bureau of Entomology. 148 p., figs. 55, pls. 6. (Technical Bulletin 86 T.) Price, 50¢.
- Yields of barley in the United States and Canada, 1922-1926. H. V. Harlan, Bureau of Plant Industry; L. H. Newman, Dominion of Canada Experimental Farms; and Mary L. Martini, Bureau of Plant Industry. 84 p. (Technical Bulletin 96 T.) Price, 15¢.
- Biology of the cotton boll weevil at Florence, S. C. F. A. Fenton and E. W. Dunnam, Bureau of Entomology. 76 p., figs. 36. (Technical Bulletin 112 T.) Price, 20¢.
- Studies in time and rate of irrigating potatoes in Colorado. W. C. Edmundson, Bureau of Plant Industry. 22 p., figs. 10. (Technical Bulletin 118 T.) Price, 5¢.
- Bud selection in the Washington Navel orange: Progeny tests of limb variations. A. D. Shamel, Carl S. Pomeroy, and R. E. Caryl, Bureau of Plant Industry. 72 p., 42 figs. (Technical Bulletin 123 T.) Price, 20¢.
- Agricultural survey of Europe: The Danube Basin—Part 2, Rumania, Bulgaria, and Yugoslavia. Louis G. Michael, Bureau of Agricultural Economics. 186 p., figs. 4. (Technical Bulletin 126 T.) Price, 30¢.
- Spacing and date-of-seeding experiments with grain sorghums. John H. Martin, John B. Sieglinger, A. F. Swanson, D. R. Burnham, H. J. Clemmer, E. H. Coles, F. E. Keating, and W. M. Osborn, Bureau of Plant Industry. 47 p., figs. 9. (Technical Bulletin 131 T.) Price, 10¢.

Investigations on the handling of Bartlett pears from Pacific coast districts. J. R. Magness and H. C. Diehl, Bureau of Plant Industry, and F. W. Allen, California Agricultural Experiment Station. 28 p., figs. 11. (Technical Bulletin 140 T.) Price, 10¢.

Life history of the oriental peach moth in Georgia. Oliver I. Snapp and H. S. Swingle, Bureau of Entomology. 16 p., figs. 3. (Technical Bulletin 152 T.) Price, 5¢.

Keeping quality of butter made from cream of various acidities. William White, C. S. Trimble, and H. L. Wilson, Bureau of Dairy Industry. 8 p. (Technical Bulletin 159 T.) Price, 5¢.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Improved reindeer handling. Lawrence J. Palmer, Bureau of Biological Survey. 18 p., figs. 2. (Circular 82 C.) Price, 5¢.

Vitamins in food materials. Sybil L. Smith, Office of Experiment Stations, and Hazel E. Munsell, Bureau of Home Economics. 55 p., pls. 3. (Circular 84 C.) Price, 15¢.

Variety tests of sugarcanes in Louisiana during the crop year 1927-28. George Arceneaux and F. D. Stevens, Bureau of Plant Industry. 16 p. (Circular 88-C.) Price, 5¢.

Rate of deterioration of sugar content of some P. O. J. sugarcane varieties in Louisiana. G. B. Sartoris, Bureau of Plant Industry. 27 p. (Circular 97 C.) Price, 5¢.

Business analysis of the tobacco growers' cooperative association. John J. Scanlan, Bureau of Agricultural Economics, and J. M. Tinley, collaborator. 152 p., figs. 20. (Circular 100 C.) Price, 25¢.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

Volume, yield, and stand tables for second-growth southern pines. Prepared by Office of Forest Experiment Stations, Forest Service, and Cooperating Agencies. 202 p. (Miscellaneous Publication 50 M.) Price, 25¢.

Reliability of the tuberculin test. John R. Mohler, Bureau of Animal Industry. 4 p., figs. 2. (Miscellaneous Publication 59 M.) Price, 5¢.

List of technical workers in the Department of Agriculture, and outline of department functions, 1929. Compiled in the Office of Personnel and Business Administration. 117 p. (Miscellaneous Publication 63 M.) Price, 15¢.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons, to manufacturers, and firms whose business is affected by the announcements.

Amendment to rules and regulations of the Secretary of Agriculture for the enforcement of the produce agency act. Amendment No. 1 to Service and Regulatory Announcements No. 107. 2 p. (S. R. A., B. A. E., No. 107, Amdt. 1.)

Notices of Judgment under the Food and Drugs Act. (N. J., F. D. 16351-16375.) pp. 205-233.

Modification of pink bollworm quarantine. Amendment No. 5 to rules and regulations supplemental to Notice of Quarantine No. 52 (Revised.) 2 p. (P. Q. C. A.-Q. 52, Amdt. 5.)

Modification of phony peach disease quarantine regulations. Amendment No. 1 to rules and regulations supplemental to Notice of Quarantine No. 67. 2 p. (P. Q. C. A.-Q. 67, Amdt. 1.)

Regulations pursuant to Public Resolution No. 47, Seventieth Congress, entitled "To provide for eradication of pink bollworm and authorizing an appropriation therefor," approved May 21, 1928. 2 p. (P. Q. C. A. Reg.)

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils which controls their distribution.

Georgia, Calhoun County. Price, 15¢.
 Georgia, Randolph County. Price, 20¢.
 Michigan, Antrim County. Price, 20¢.
 Michigan, Barry County. Price, 15¢.
 Michigan, Isabella County. Price, 15¢.

Michigan, Livingston County. Price, 15¢.
 New Jersey, Salem area. Price, 25¢.
 North Carolina, Northampton County.
 Price 20¢.

OTHER PUBLICATIONS

How to get the last tick. W. M. MacKellar, Bureau of Animal Industry. 15 p.
 Price, 5¢.

Mango culture in Hawaii. W. T. Pope, horticulturist. 27 p., pls. 18. (Hawaii Bulletin 58.) Price, 20¢.

Report of the Virgin Islands Agricultural Experiment Station, 1928. 20 p., figs. 6.
 Price, 5¢.

Salting the cattle range. 4 p., illus. Price, 5¢.

PERIODICALS

Free distribution of periodical publications, except those otherwise noted, is restricted to employees of or cooperators with the department.

Agricultural Situation. Vol. 13, No. 11. November 1, 1929. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological Data. Vol. 16, No. 7, July. No. 8, August, 1929.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Daily Weather Maps. Limited editions. Not for general distribution.

Edition 1 contains forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Editions issued at Washington, D. C., are 25¢ a month, \$2.50 a year. Edition 2 contains forecasts for the entire United States; 30¢ a month, \$3 a year. Neither edition furnished in quantities unless the order is placed with the Superintendent of Documents, in advance of issue. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹

Experiment Station Record. Vol. 61, No. 5, October; No. 6, October Abstract Number. 1929. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture, each volume containing about 3,500 abstracts of current research. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Journal of Agricultural Research. Vol. 39, No. 7, October 15; No. 8, November 1; No. 9, November 15, 1929. Illus. Not distributed free to individuals. Price 20¢ a copy; \$4 a year, domestic; \$5.25 a year foreign.¹

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each.

Monthly Weather Review. Vol. 57, No. 8, August, 1929. Illus. Price, 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign.¹

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The Official Record. Vol. 8, Nos. 45-48. November 7, 14, 21, 28, 1929. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Weather outlook. Limited edition. Not for general distribution.

Prepared at and distributed from the following forecast centers of the Weather Bureau: Washington, D. C., New Orleans, La., Chicago, Ill., Denver, Colo., and San Francisco, Calif.

Weekly weather and crop bulletin. Not for general distribution.

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

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United States Department of Agriculture

MONTHLY LIST OF PUBLICATIONS¹

DECEMBER, 1929

Send no remittances to the U. S. Department of Agriculture

A copy of any of the general publications listed herein, except those otherwise noted, may be obtained free upon application to the United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts. Free distribution of periodicals is restricted.

After the department's supply is exhausted, publications may still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the price stated herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

GENERAL PUBLICATIONS

FARMERS' BULLETINS

These bulletins discuss in nontechnical language a wide variety of subjects pertaining to the farm and farm home.

Production of clean milk. (With slight revisions.) Ernest Kelly, Bureau of Dairy Industry. 18 p., figs. 10. (Farmers' Bulletin 602 F Revised.) Price, 5¢.

Larkspur or "poison weed." C. Dwight Marsh, A. B. Clawson, and Hadleigh Marsh, Bureau of Animal Industry. 13 p., figs. 6. (Farmers' Bulletin 988 F., Revised.) Price, 5¢.

Describes species of larkspur and gives measures which should be taken to reduce losses of cattle from poisoning.

Poultry keeping in back yards. M. A. Jull and A. R. Lee, Bureau of Animal Industry. 29 p., figs. 26. (Farmers' Bulletin 1508 F Revised.) Price, 10¢.

Covers briefly the management of back-yard and suburban flocks including the selection of a breed of chickens: incubation and brooding; feeding, with special emphasis on the care of young chicks and feeding for egg production; construction of coops and small houses; description of equipment of houses and the control of diseases and parasites.

LEAFLETS

This series carries popular material of the same general character as that carried by the Farmers' Bulletins, except that the leaflets are confined to specific practical directions, recommendations, remedies, and methods. They are brief and concise, written in informal, popular style, and are limited to eight pages.

Play suits for winter. Bess M. Viemont, Bureau of Home Economics. 8 p., figs. 9. (Leaflet 54 L.) Price, 5¢.

One-piece protective suits designed by the Bureau of Home Economics especially for nursery school children, but equally adapted for home wear. The leaflet is intended for the use of homemakers, clothing specialists in the extension service, and child specialists who are working for the adoption of more hygienic types of children's clothing.

TECHNICAL BULLETINS

The Technical Bulletins contain the results of scientific and research work applying to a special crop, industry, or locality. The editions are limited, as they are intended primarily for scientific workers and subject-matter specialists.

Red-Squill powders as raticides. J. C. Munch, pharmacologist, and James Silver and E. E. Horn, Bureau of Biological Survey. 36 p., pl. 1. (Technical Bulletin 134 T.) Price, 10¢.

Since animals other than rats usually refuse to eat red squill in the concentrations used for rat baits, it approaches the ideal rat poison. This is the report of an investigation for the production of a potent red-squill preparation.

The corn borer in Central Europe. A review of investigations from 1924 to 1927. K. W. Babcock and A. M. Vance, Bureau of Entomology. 55 p., figs. 3, pls. 10. (Technical Bulletin 135 T.) Price, 20¢.

A technical comprehensive report containing distribution surveys of the borer in Austria, Germany, Poland, Rumania, Czechoslovakia, Yugoslavia, and Greece, with studies of host plants, parasites, and control measures. Suitable for distribution to technical workers wherever engaged in the study of this pest.

¹ Succeeds post-card list beginning with July, 1929.

Yields of second-growth spruce and fir in the Northeast. Walter H. Meyer, Forest Service. 52 p., figs. 18, pls. 3. (Technical Bulletin 142 T.) Price, 15¢.

The pulp and paper industry is rapidly depleting the virgin forest in the Northeast and need is felt to have available correct information regarding the possible yields of second-growth timber coming in on cut-over lands.

Life history and habits of grasshopper mice, genus *Onychomys*. Part I, Vernon Bailey; Part II, Charles C. Sperry, Bureau of Biological Survey. 20 p., 4 pls., 1 fig., map. (Technical Bulletin 145 T.) Price, 10¢.

Gives a general account of the habits and life history of the grasshopper mice, with detailed report on the food of the genus as determined from laboratory examination of the contents of 96 stomachs of the mice collected in 13 States during every month of the year.

A method for determining the color of agricultural products. Dorothy Nickerson, Bureau of Agricultural Economics. 32 p., figs. 18. (Technical Bulletin 154 T.) Price, 10¢.

Experiments made on cotton are used throughout this bulletin as an example of what may be done with other products. They include spectrophotometric, photometric, and colorimetric measurements. The development of hay conversion tables is described.

CIRCULARS

This series carries the less technical and more informal material of the same general nature as that in the Technical Bulletin series.

Organization and management problems of cooperative oil associations in Minnesota. Rudolph K. Froker, Bureau of Agricultural Economics, and H. Bruce Price, University of Minnesota. 47 p., figs. 12. (Circular 80 C.) Price, 10¢.

The cooperative oil associations of Minnesota were selected for this study. Types of organization and methods of operation are presented.

The handling of California table grapes. C. W. Mann, Bureau of Plant Industry. 14 p., figs. 5. (Circular 83 C.) Price, 5¢.

Presents statistics as to the table-grape industry in California and discusses the factors to be considered in handling and packing.

Studies of cotton root rot at Greenville, Tex. Homer C. McNamara and Dalton R. Hooton, Bureau of Plant Industry. 16 p., figs. 5, pls. 4. (Circular 85 C.) Price, 10¢.

Records of the location and distribution of root rot on all plots of the United States Cotton-Breeding Field Station at Greenville, Tex., for the 8-year period from 1920 to 1927 form the basis of this report.

Market supplies and prices of apples. J. W. Park, Bureau of Agricultural Economics. 92 p., figs. 11. (Circular 91 C.) Price, 15¢.

This bulletin is a part of an economic study of the apple industry of the United States in cooperation with various State agencies.

Game birds suitable for naturalizing in the United States. W. L. McAtee, Bureau of Biological Survey. 24 p., 14 figs., 8 maps. (Circular 96-C.) Price, 10¢.

Discusses species that respond most successfully to naturalization and species considered undesirable for introduction. Contains maps showing annual precipitation and natural vegetation of the world, factors to be considered when a new game bird is to be tried out.

The farm real estate situation, 1928-29. E. H. Wiecking, Bureau of Agricultural Economics. 67 p., figs. 6. (Circular 101 C.) Price, 15¢.

Discusses the situation in general, farm real estate values, changes in farm ownership, farm credit, and farm real estate taxes.

MISCELLANEOUS PUBLICATIONS

This series includes those publications of a miscellaneous nature which do not fall within any of the other series issued by the department, particularly those of a size other than octavo. Such publications were formerly issued as Miscellaneous Circulars.

The Food, Drug, and Insecticide Administration of the United States Department of Agriculture. 20 p. (Miscellaneous Publication 48 M.) Price, 10¢.

Enforcement of food and drugs act, tea act, import milk act, insecticide act, caustic poison act, and naval stores act.

Manual for bird banders. Frederick C. Lincoln, Bureau of Biological Survey, and S. Prentiss Baldwin, director of Baldwin Research Laboratory and honorary president of Regional Banding Associations. 112 p., figs. 70. (Miscellaneous Publication 58 M.) Price, 30¢.

Issued primarily for the bird-banding cooperators of the Bureau of Biological Survey and designed as a guide for all phases of their banding work. Instructions are given for constructing, baiting, and operating traps, for handling different kinds of birds, and for the keeping of required records.

List of available publications of the United States Department of Agriculture, June 1, 1929. Compiled by John O. Riley, Office of Information. 71 p. (Miscellaneous Publication 60 M.) Price 10¢.

Arranged alphabetically by subjects. Instructions to be followed in ordering publications, and rules governing the distribution are also given.

SOIL SURVEYS

These reports consist of two parts: (1) A soil map in colors showing the extent and distribution of the different soils in the area covered by the survey; and (2) a printed report containing brief descriptions of the area, its climate and agriculture, and detailed descriptions of the soils. They are of interest and value primarily to residents of the area surveyed and to soil specialists. All requests for Soil Surveys are referred to the Bureau of Chemistry and Soils, which controls their distribution.

Iowa, Warren County. Price, 15¢.
Michigan, Barry County. Price, 15¢.

Minnesota, Lac Qui Parle County. Price, 15¢.
North Dakota, Cass County. Price, 35¢.

NORTH AMERICAN FAUNA

A technical series of the Bureau of Biological Survey devoted principally to revisions of genera of mammals and to biological surveys of States and other major areas. Of interest chiefly to professional biologists.

Revision of the American Chipmunks (Genera *Tamias* and *Eutamias*.) Arthur H. Howell, Bureau of Biological Survey. 157 p., figs. 9, pls. 10. (North American Fauna 52.) Price, 35¢.

Results of an intensive taxonomic study of more than 1,300 specimens of the eastern chipmunk, *Tamias*, and more than 13,000 of the western genus, *Eutamias*. In addition to a technical review of the forms, information is given regarding the distribution and habitat, food and economic status, and other points in the life history of these rodents. An annotated bibliography of more than 100 titles of the principal papers relating to American chipmunks since 1743 is appended.

SERVICE AND REGULATORY ANNOUNCEMENTS

Such notices of judgment, decisions, and instructions as are necessary in the enforcement of regulatory acts are contained in these announcements. They are issued monthly or as necessary by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by the announcements.

Amendments to standards for rough rice. Amendment No. 1 to Service and Regulatory Announcements No. 108. 2 p. (S. R. A.-B. A. E., 108, Amdt. 1.) Price, 5¢.

Classification of leaf tobacco covering classes, types, and groups of grades. Issued under authority of the tobacco stocks and standards act. 8 p. (S. R. A.-B. A. E. 118.) Price, 5¢.

Information, instructions, rulings, etc., concerning the work of the Bureau of Animal Industry. pp. 87-97. November, 1929. (S. R. A., B. A. I., No. 270.) Price, 5¢.

Modification of satin-moth quarantine regulations. Amendment No. 1 to revised rules and regulations supplemental to Notice of Quarantine No. 53. (Revised.) 2 p. (P. Q. C. A.-Q. 53. Amdt. 1.) Price, 5¢.

Notices of judgment under the food and drugs act. Compiled by the Food, Drug, and Insecticide Administration. Price, 5¢. each.

(N. J. F. D. 16376-16400). pp. 235-265. December, 1929; (N. J. F. D. 16401-16425). pp. 267-290. December, 1929; (N. J. F. D. 16426-16450). pp. 291-302. November, 1929; (N. J. F. D. 16451-16475). pp. 303-314. December, 1929; (N. J. F. D. 16476-16500). pp. 315-325. December, 1929; (N. J. F. D. 16501-16525). pp. 327-337. December, 1929.

Pests collected from imported plants and plant products from Jan. 1 to Dec. 31, 1928, inc. Annual Letter of Information No. 41. P. Q. C. A. No. 97. Supplement.) 234 p. Price, 10¢.

Service and Regulatory Announcements, Bureau of Animal Industry, November, 1929. Service and Regulatory Announcements No. 271. pp. 99-106. (S. R. A.-B. A. I. 271.) Price, 5¢.

OTHER PUBLICATIONS

Directory, Forest Service. October, 1929. 34 p. Price, 5¢.

A directory of officers of the United States Forest Service in Washington and in the field. Issued semiannually. For the exclusive use of the members of the Forest Service and cooperating bureaus.

The Macadamia nut in Hawaii. W. T. Pope, horticulturist. 23 p., figs. 9. Hawaii Bulletin 59.) Price, 10¢.

On account of the growing interest in Macadamia-nut culture in Hawaii, an effort has been made to bring together the more pertinent data on the subject and to place on record the results of investigations that have been in progress at the station for a number of years.

PERIODICALS

Free distribution of periodicals is definitely restricted. They may be obtained by purchase or subscription from the Superintendent of Documents.

Agricultural situation. Vol. 13, No. 12. December 1, 1929. Price, 5¢ a copy; 25¢ a year, domestic; 40¢ a year, foreign.¹

A brief general summary of current conditions, including pertinent statistics relating to production, movement, consumption, and prices of the important farm products.

Climatological data. Vol. 16, No. 8. August, 1929.

In 42 sections, containing weather statistics for 42 separate sections, each corresponding, as a rule, to a State. Monthly information for 1 section is 50¢ a year; for data regarding all 42 sections, 35¢ a month, or \$4 a year.¹ Not for general distribution.

Crops and markets. Vol. 6, No. 11, November, 1929. Price, 5¢ a copy; 60¢ a year, domestic; 85¢ a year, foreign.¹

Statistics concerning crops and livestock estimates and market information; reports on supplies, stocks, commercial movement, condition and prices of agricultural products; and studies of prices and demand, both foreign and domestic.

Daily Weather Maps. Limited editions. Not for general distribution.

Edition 1 contains forecasts for all States east of the Mississippi River, except Illinois, Wisconsin, Indiana, and Michigan. Editions issued at Washington, D. C., are 25¢ a month, \$2.50 a year. Edition 2 contains forecasts for the entire United States; 30¢ a month, \$3 a year. Neither edition furnished in quantities unless the order is placed with the Superintendent of Documents, in advance of issue. Maps DD, E, and CM, showing the weather conditions and forecasts, are issued at numerous stations throughout the United States; 20¢ a month, \$2 a year.¹

Experiment Station Record. Vol. 60, index number, January-June, 1929; vol. 61, No. 7, November, 1929. Single numbers for sale only. Price, 10¢.¹

A technical review of the world's scientific literature pertaining to agriculture. Two volumes a year, of 10 numbers each; 75¢ a volume, domestic; \$1.25 a volume, foreign.

Journal of Agricultural Research. Vol. 39, No. 10, November 15, 1929; No. 11, December 1, 1929; No. 12, December 15, 1929. Illus. Price, 20¢ a copy; \$4 a year, domestic; \$5.25 a year, foreign. Not distributed free to individuals.

Of primary interest to agricultural scientists and advanced students only. Issued in 2 volumes a year, of 12 numbers each. Free distribution is limited to certain libraries and to institutions or departments doing research work. Separates of articles are distributed free to those desiring them as long as the limited supply lasts.

Monthly Weather Review. Vol. 57, No. 9, September, 1929. Illus. Price 15¢ a copy; \$1.50 a year, domestic; \$2.25 a year, foreign. Not for general distribution.

Contains (1) meteorological contributions and bibliography, (2) weather charts for the month with an interpretive summary, and (3) climatological tables.

The Official Record. Vol. 8, Nos. 49-52. December 5, 12, 19, 26, 1929. Price, 5¢ a copy; 50¢ a year, domestic; \$1.10 a year, foreign.¹

Contains official orders and miscellaneous information concerning the department's activities and such other matter as should be brought to employees' attention.

Public Roads. Vol. 10. Price, 10¢ a copy; \$1 a year, domestic; \$1.50 a year foreign.¹

No. 9, November, 1929. *Contents:* Earth pressure experiments on culvert pipes.

No. 10, December, 1929. *Contents:* The mechanics of shear failures on clay slopes and the creep of retaining walls.

Snow and Ice Bulletin. No. 1, December 18, 1929; No. 2, December 27, 1929. 1 p., map. 50¢ a year. Free distribution limited to cooperators with the Weather Bureau.

Issued on Tuesdays during the winter. Based on data from regular Weather Bureau and selected cooperative stations. As far as practicable all reports of snow and ice are given.

Weather outlook. Limited edition. Not for general distribution.

Prepared at and distributed from the following forecast centers of the Weather Bureau: Washington, D. C., New Orleans, La., Chicago, Ill., Denver, Colo., and San Francisco, Calif.

Weekly weather and crop bulletin. Not for general distribution.

Gives detailed weather conditions of preceding weeks and their effect on development of crops and farm operations. Limited edition.

¹ Payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.